

# APPARATUS FOR SECURE STORAGE OF VEHICLE ODOMETER VALUES AND METHOD THEREFOR

## ABSTRACT OF THE INVENTION

5 An improved vehicle odometer is provided with an encoder and a microcontroller. The encoder has a unique key that configures an encryption algorithm. The encryption algorithm can be in the form of circuitry or software or any combination there between. The encoder receives a increment signal from the vehicle indicating that the vehicle has traveled a pre-determined distance. The encoder then increments the odometer-related value and then encrypts it with the encryption  
10 algorithm. The encoder then wraps the encrypted odometer-related value into a data packet with a serial number. Only a suitably equipped computing device, such as a microcontroller, identify and correctly decrypt and process the encrypted odometer-related value, thereby preventing the tampering of the vehicle's odometer.

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